(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 14 October 2004 (14.10.2004)

PCT

(10) International Publication Number WO 2004/087947 A1

(51) International Patent Classification7:

C12Q 1/68

(21) International Application Number:

PCT/CA2004/000482

(22) International Filing Date: 31 March 2004 (31.03.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/458,409

31 March 2003 (31.03.2003) US

(71) Applicant (for all designated States except US): MCMAS-TER UNIVERSITY [CA/CA]; Office of Research Contracts & Intellectual Property, 1280 Main Street West JHE 118, Hamilton, Ontario L8N 3Z5 (CA).

(72) Inventors; and

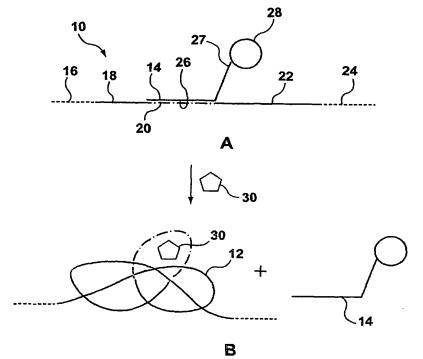
(75) Inventors/Applicants (for US only): LI, Yingfu [CA/CA];87 Pirie Drive, Dundas, Ontario L9H 6Y2 (CA). NUTIU,

Ravan [RO/CA]; 1010-1760 Main Street West, Hamilton, Ontario L8S 1H2 (CA).

- (74) Agent: MCGUINNESS, Ursula; Gowling Lafleur Henderson LLP, Barristers & Sollicitors, Standard Life Centre, Suite 560, 120 King Street West, Hamilton, Ontario L8N 3R4 (CA).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,

[Continued on next page]

(54) Title: APTAMER SELECTION METHOD



(57) Abstract: The present invention provides a method for the selection of aptamer sequences and aptamers identified using the method. The method comprises immobilizing a library oligonucleotide by forming a duplex with an antisense oligonucleotide, reating the duplex molecule with a target and collecting oligonucleotide molecules which dissociate from the duplex structure.

WO 2004/087947 A1



GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,

ML, MR, NE, SN, TD, TG).

Published:

with international search report

before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.